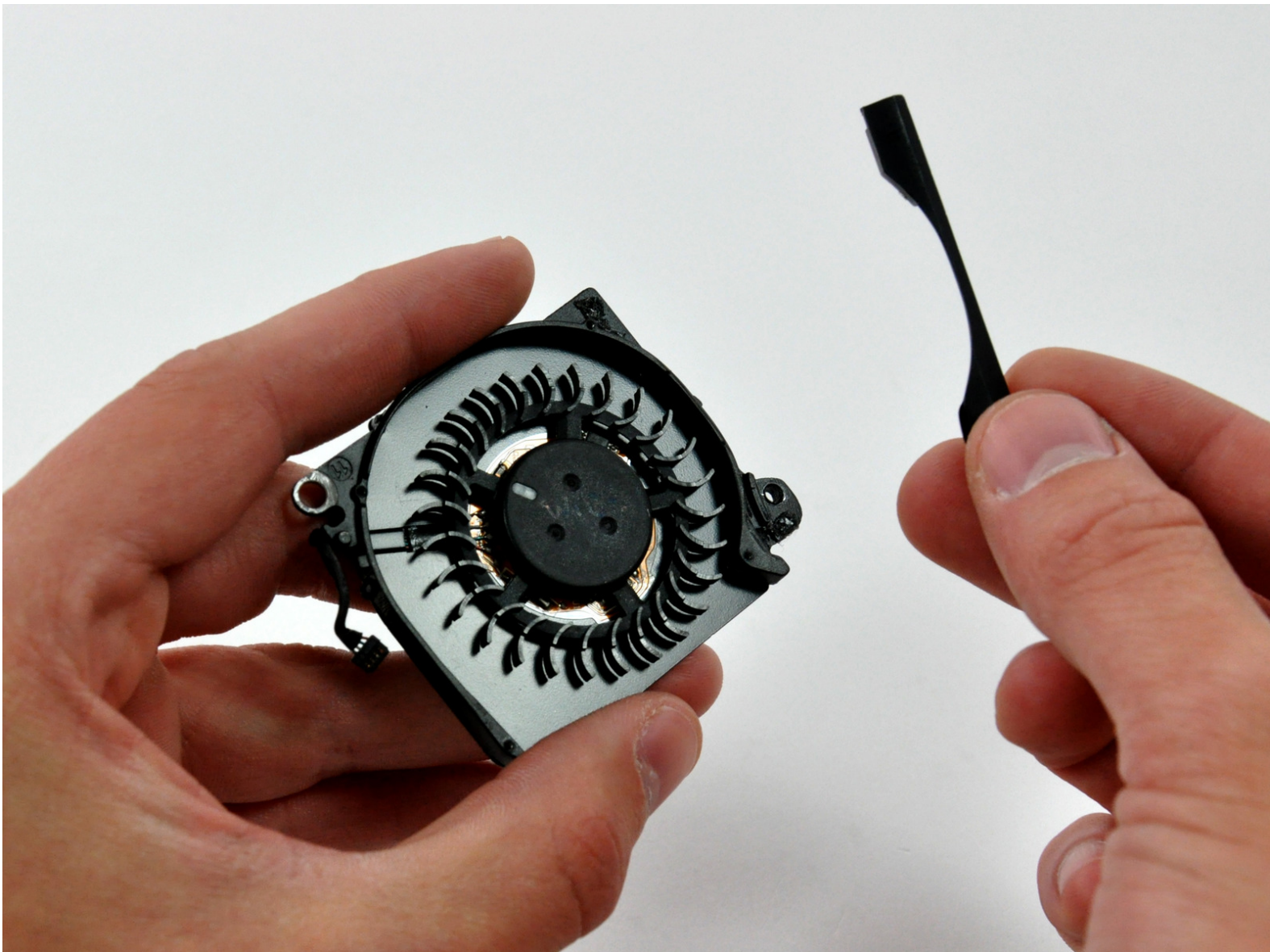




MacBook Air Models A1237 and A1304 Fan Replacement

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INTRODUCTION

[video: http://www.youtube.com/watch?v=j8jR0_IMICA]

Replacing a defective fan is pretty easy and will keep your laptop running cool.



TOOLS:

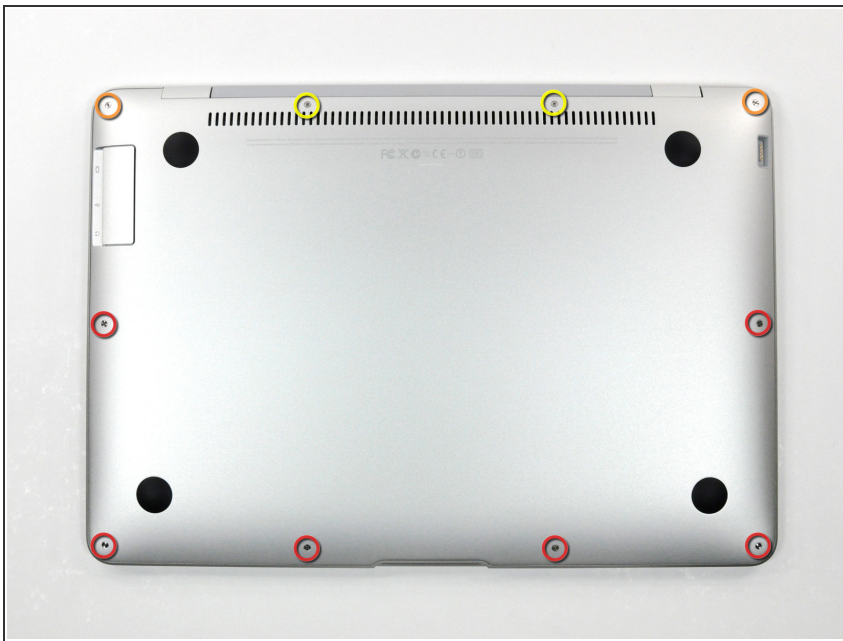
- [Arctic Silver ArctiClean](#) (1)
- [Arctic Silver Thermal Paste](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [Spudger](#) (1)



PARTS:

- [MacBook Air \(Original\) Fan](#) (1)
- [MacBook Air \(Late 2008 Mid 2009\) Fan](#) (1)

Step 1 — Lower Case



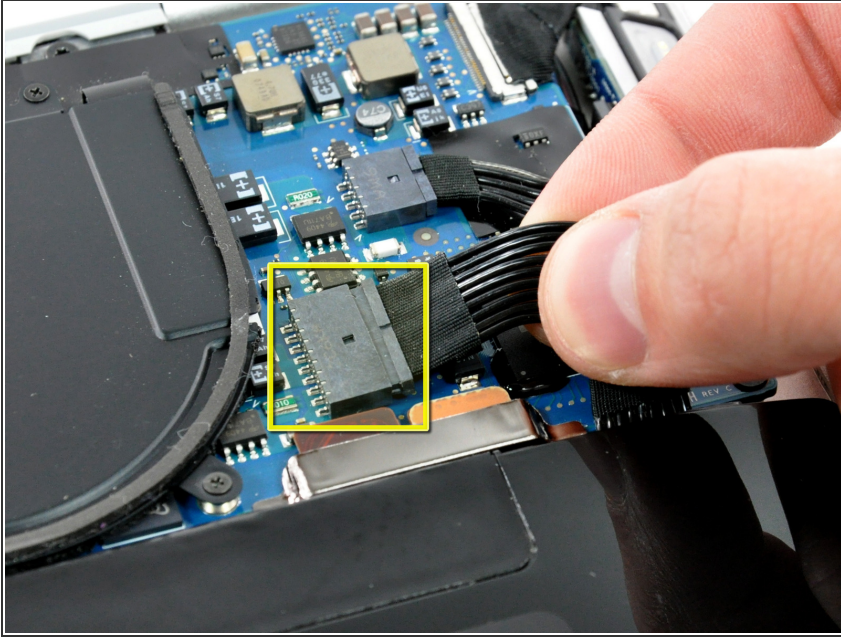
- Remove the following 10 screws securing the lower case to the Air:
 - Six 2.8 mm Phillips screws.
 - Two 3.8 mm Phillips screws.
 - Two 5.4 mm Phillips screws.

Step 2



- Slightly lift the lower case near the vents and push it toward the rear of the computer to free the mounting tabs.

Step 3 — Battery



- Disconnect the battery connector by pulling it straight out of its socket.

Step 4



- Remove the following nine screws securing the battery to the Air:
 - Four 2.9 mm Phillips.
 - Four 3.8 mm Phillips.
 - One 7.2 mm Phillips.

Step 5



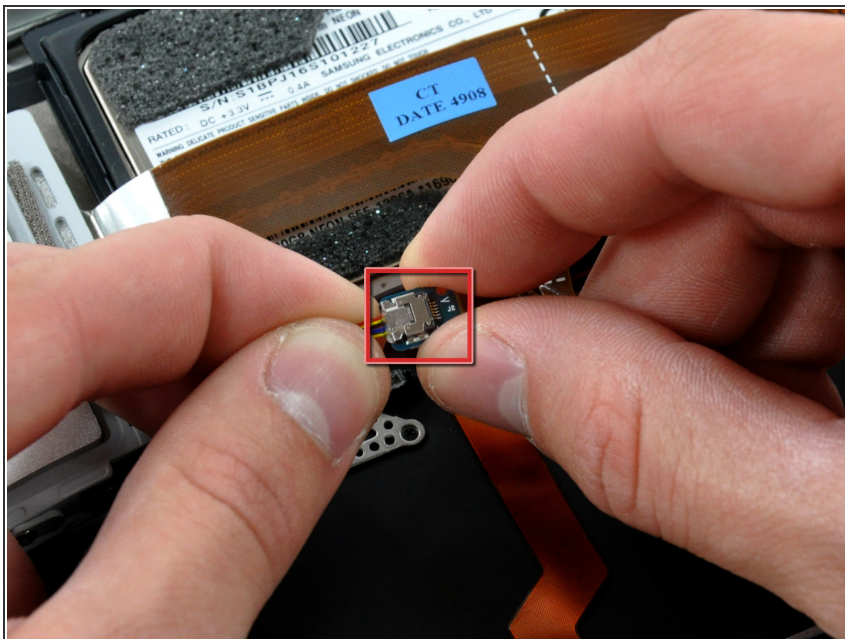
- Lift the battery out of the Air.

Step 6 — Hard Drive



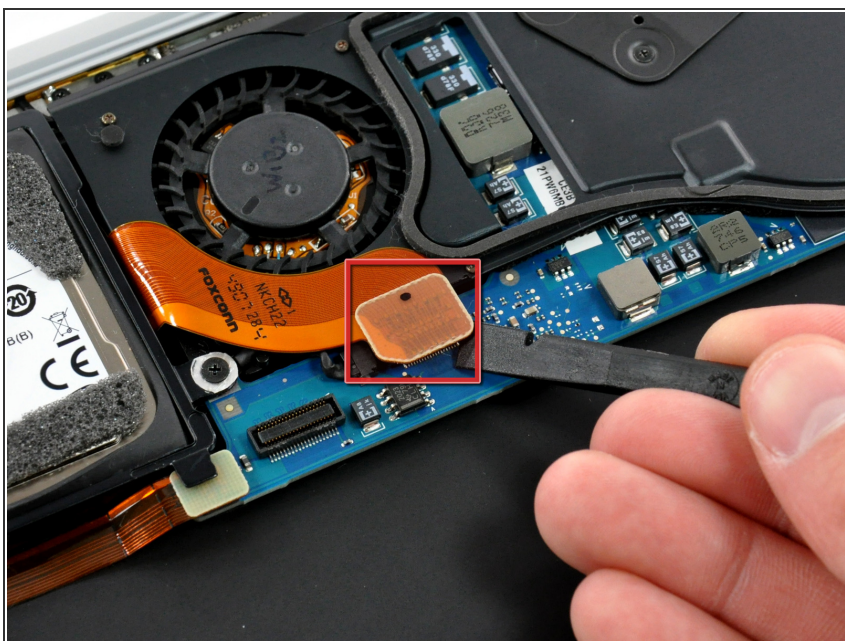
- Disconnect the port hatch ribbon cable from the logic board by pulling it straight up by its black pull tab.
- Pull the audio out ribbon cable off the adhesive securing it to the upper case.
- Use a spudger to pry the audio out ribbon cable connector board off the hard drive bracket.

Step 7



- Disconnect the audio out cable from its socket on the port hatch ribbon cable.

Step 8



- Use a spudger to pry the hard drive cable connector up off the logic board.

Step 9



- Use the sharp end of a spudger to de-route the microphone cable from the hard drive bracket.
- Remove the cosmetic screw cover from the adhesive securing it to the hard drive bracket.

Step 10



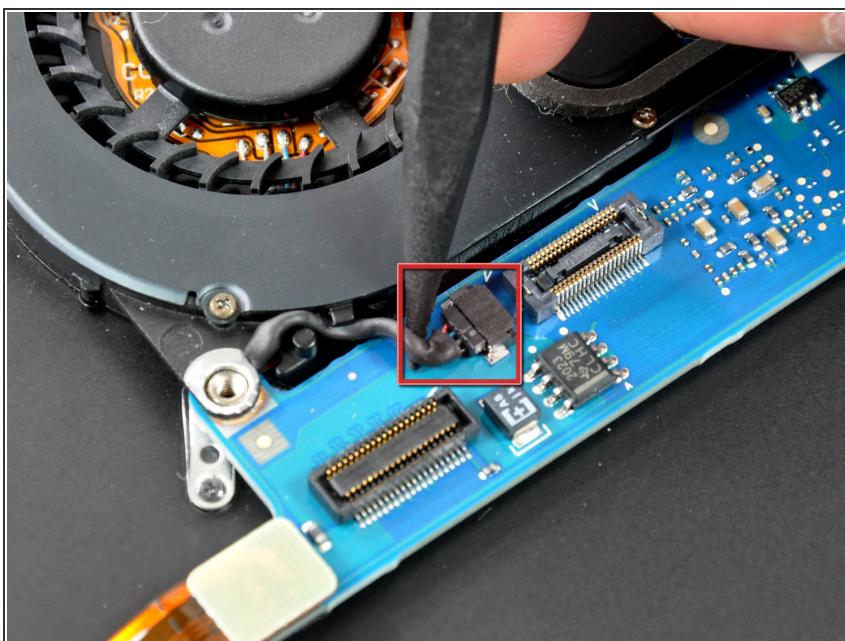
- Remove the four Phillips screws securing the hard drive assembly to the upper case:
 - Two 4.7 mm screws.
 - Two 3.9 mm screws.

Step 11



- Lift the hard drive assembly out of the upper case.

Step 12 — Heat Sink



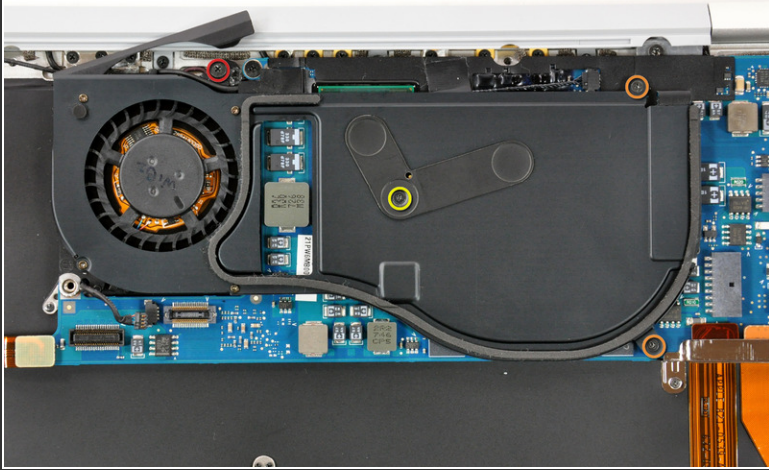
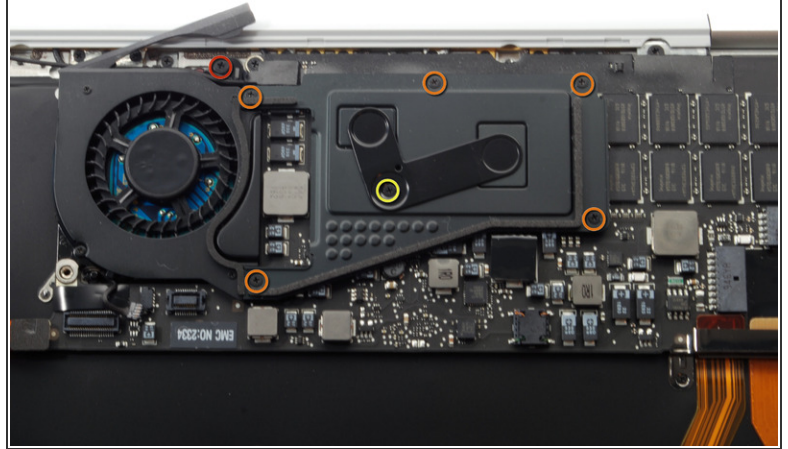
- Use the tip of a spudger to pull the fan cable connector straight away from its connector on the logic board.

Step 13



- Use the tip of a spudger to move the cosmetic fan cover aside.

Step 14

A1237**A1304**

- ⓘ If you have the original version of the MacBook Air (A1237), refer to picture 1. Remove the following screws securing the heat sink to the logic board:
- One 5.9 mm Phillips screw.
 - Two 1.9 mm Phillips screws.
 - One 1.9 mm Phillips screw.
- ⓘ If you have the A1304 version of MacBook Air, refer to picture 2. Remove the following screws securing the heat sink to the logic board:
- One 5.0 mm Phillips screw
 - Five 1.9 mm Philips screws.
 - One 2.5 mm Phillips screw.

Step 15



- Lift the processor clamp off the heat sink.

Step 16



- Deroute the microphone cable away from the channel in the fan.

Step 17



- Lift the heat sink up off the logic board.
- ⓘ Be mindful of the microphone cable when lifting the heat sink, as it can get tangled on the top edge of the fan.
- ⚠ When you mount the heat sink back onto the logic board, be sure to apply a new layer of thermal paste. We have a [guide](#) that makes replacing the thermal paste easy.

Step 18 — Fan



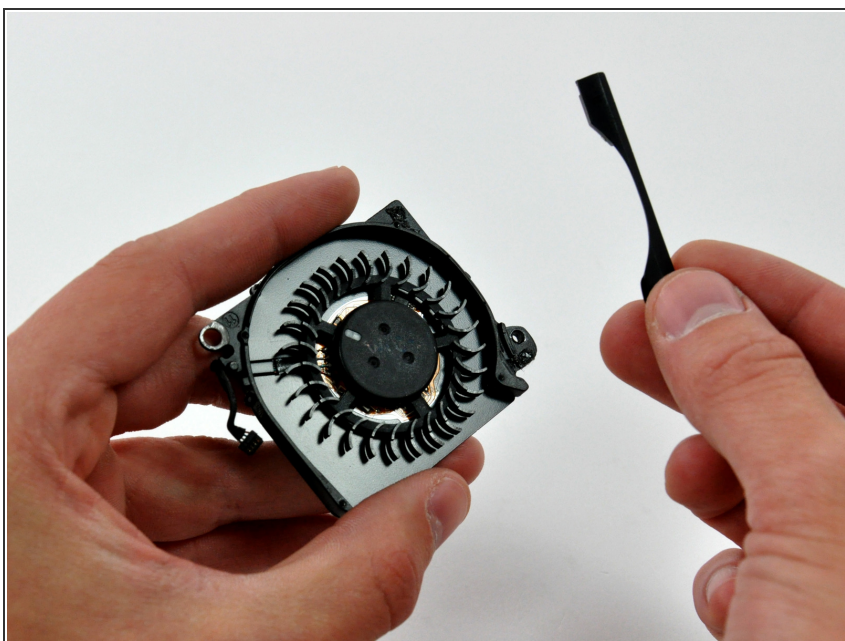
- ⓘ If you have the A1304 version of MacBook Air, the fan is a separate component. The following steps therefore do not apply to your model. Simply detach the microphone cable from where it is adhered to the fan, and lift the fan out from the machine at this point.
- Remove the four 2.5 mm Phillips screws securing the fan to the heat sink assembly.

Step 19



- Lift the heat sink assembly up off the fan.

Step 20



- Lift the cosmetic fan bracket out of the fan.
- Fan remains.

To reassemble your device, follow these instructions in reverse order.

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